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ABSTRACT

The present invention discloses a vertical cavity surface emitting laser (VCSEL). The VCSEL comprises a first and second mirror stack. The VCSEL has an active region positioned between the first mirror stack and second mirror stack. Also, the VCSEL has a contact region in at least one of the active regions. The VCSEL encompasses a module for stabilizing the gains among a plurality of modes included by spatial power instability by increasing the current through the contact.